

# Conversion Factors

Multiply	By	To obtain
<b>Length</b>		
inch (in.)	$2.54 \times 10^1$	millimeter (mm)
	$2.54 \times 10^{-2}$	meter
foot (ft)	$3.048 \times 10^{-1}$	meter (m)
mile (mi)	$1.609 \times 10^0$	kilometer (km)
<b>Area</b>		
acre	$4.047 \times 10^3$	square meter ( $m^2$ )
	$4.047 \times 10^{-1}$	square hectometer ( $hm^2$ )
	$4.047 \times 10^{-3}$	square kilometer ( $km^2$ )
square mile ( $mi^2$ )	$2.590 \times 10^0$	square kilometer ( $km^2$ )
<b>Volume</b>		
gallon (gal)	$3.785 \times 10^0$	liter (L)
	$3.785 \times 10^{-3}$	cubic meter ( $m^3$ )
	$3.785 \times 10^0$	cubic decimeter ( $dm^3$ )
million gallons (Mgal)	$3.785 \times 10^3$	cubic meter ( $m^3$ )
	$3.785 \times 10^{-3}$	cubic hectometer ( $hm^3$ )
cubic foot ( $ft^3$ )	$2.832 \times 10^{-2}$	cubic meter ( $m^3$ )
	$2.832 \times 10^1$	cubic decimeter ( $dm^3$ )
cubic-foot-per-second-per-day [( $ft^3/s/d$ )]	$2.447 \times 10^3$	cubic meter ( $m^3$ )
	$2.447 \times 10^{-3}$	cubic hectometer ( $hm^3$ )
acre-foot (acre-ft)	$1.223 \times 10^3$	cubic meter ( $m^3$ )
	$1.223 \times 10^{-3}$	cubic hectometer ( $hm^3$ )
	$1.223 \times 10^{-6}$	cubic kilometer ( $km^3$ )
<b>Flow rate</b>		
cubic foot per second ( $ft^3/s$ )	$2.832 \times 10^1$	liter (L/s)
	$2.832 \times 10^{-2}$	cubic meter per second ( $m^3/s$ )
	$2.832 \times 10^1$	cubic decimeter per second ( $dm^3/s$ )
gallon per minute (gal/min)	$6.309 \times 10^{-2}$	liter per second (L/s)
	$6.309 \times 10^{-5}$	cubic meter per second ( $m^3/s$ )
	$6.309 \times 10^{-2}$	cubic decimeter per second ( $dm^3/s$ )
million gallons per day (Mgal/d)	$4.381 \times 10^{-2}$	cubic meter per second
	$4.381 \times 10^1$	cubic decimeter per second ( $dm^3/s$ )
<b>Mass</b>		
ton, short (2,000 lb)	$9.072 \times 10^{-1}$	megagram (Mg) or metric ton

Temperature in degrees Celsius ( $^{\circ}\text{C}$ ) may be converted to degrees Fahrenheit ( $^{\circ}\text{F}$ ) as follows:

$$^{\circ}\text{F} = (1.8 \times ^{\circ}\text{C}) + 32$$

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